Zhi Liu

List of Publications by Year
in descending order

277 papers	16,417 citations	17776 65 h-index	22488 117 g-index
283 all docs	283 docs citations	283 times ranked	22902 citing authors

#	Article	IF	Citations
1	Reaction-Driven Restructuring of Rh-Pd and Pt-Pd Core-Shell Nanoparticles. Science, 2008, 322, 932-934.	6.0	1,146
2	Quantum spin Hall state in monolayer 1T'-WTe2. Nature Physics, 2017, 13, 683-687.	6.5	596
3	Break-Up of Stepped Platinum Catalyst Surfaces by High CO Coverage. Science, 2010, 327, 850-853.	6.0	456
4	The origin of high electrolyteâ€"electrode interfacial resistances in lithium cells containing garnet type solid electrolytes. Physical Chemistry Chemical Physics, 2014, 16, 18294-18300.	1.3	431
5	Investigation of solid/vapor interfaces using ambient pressure X-ray photoelectron spectroscopy. Chemical Society Reviews, 2013, 42, 5833.	18.7	358
6	Ambient-Pressure XPS Study of a Niâ€"Fe Electrocatalyst for the Oxygen Evolution Reaction. Journal of Physical Chemistry C, 2016, 120, 2247-2253.	1.5	336
7	Properties of Disorder-Engineered Black Titanium Dioxide Nanoparticles through Hydrogenation. Scientific Reports, 2013, 3, 1510.	1.6	317
8	Surface strontium enrichment on highly active perovskites for oxygen electrocatalysis in solid oxide fuel cells. Energy and Environmental Science, 2012, 5, 6081.	15.6	307
9	Using â€œTenderâ€•X-ray Ambient Pressure X-Ray Photoelectron Spectroscopy as A Direct Probe of Solid-Liquid Interface. Scientific Reports, 2015, 5, 9788.	1.6	284
10	Importance of the Metalâ€"Oxide Interface in Catalysis: In Situ Studies of the Waterâ€"Gas Shift Reaction by Ambientâ€Pressure Xâ€ray Photoelectron Spectroscopy. Angewandte Chemie - International Edition, 2013, 52, 5101-5105.	7.2	280
11	Unravelling the electrochemical double layer by direct probing of the solid/liquid interface. Nature Communications, 2016, 7, 12695.	5.8	267
12	Measuring fundamental properties in operating solid oxide electrochemical cells by using in situ X-ray photoelectron spectroscopy. Nature Materials, 2010, 9, 944-949.	13.3	257
13	Evolution of Structure and Chemistry of Bimetallic Nanoparticle Catalysts under Reaction Conditions. Journal of the American Chemical Society, 2010, 132, 8697-8703.	6.6	245
14	New ambient pressure photoemission endstation at Advanced Light Source beamline 9.3.2. Review of Scientific Instruments, 2010, 81, 053106.	0.6	242
15	Surface Plasmon Enabling Nitrogen Fixation in Pure Water through a Dissociative Mechanism under Mild Conditions. Journal of the American Chemical Society, 2019, 141, 7807-7814.	6.6	235
16	Distinct charge dynamics in battery electrodes revealed by in situ and operando soft X-ray spectroscopy. Nature Communications, 2013, 4, 2568.	5.8	211
17	Role of Manganese Oxide in Syngas Conversion to Light Olefins. ACS Catalysis, 2017, 7, 2800-2804.	5.5	188
18	Graphene cover-promoted metal-catalyzed reactions. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 17023-17028.	3.3	183

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19	Intrinsic Relation between Catalytic Activity of CO Oxidation on Ru Nanoparticles and Ru Oxides Uncovered with Ambient Pressure XPS. Nano Letters, 2012, 12, 5761-5768.	4.5	182
20	In Situ Ambient Pressure X-ray Photoelectron Spectroscopy Studies of Lithium-Oxygen Redox Reactions. Scientific Reports, 2012, 2, 715.	1.6	180
21	Toward Practical Application of Functional Conductive Polymer Binder for a High-Energy Lithium-Ion Battery Design. Nano Letters, 2014, 14, 6704-6710.	4.5	172
22	Highly Enhanced Concentration and Stability of Reactive Ce³⁺ on Doped CeO₂ Surface Revealed In Operando. Chemistry of Materials, 2012, 24, 1876-1882.	3.2	169
23	Reaction-Induced Strong Metalâ€"Support Interactions between Metals and Inert Boron Nitride Nanosheets. Journal of the American Chemical Society, 2020, 142, 17167-17174.	6.6	164
24	Hydrogenation of CO₂ to Methanol on CeO_{<i>x</i>}/Cu(111) and ZnO/Cu(111) Catalysts: Role of the Metalâ€"Oxide Interface and Importance of Ce³⁺ Sites. Journal of Physical Chemistry C, 2016, 120, 1778-1784.	1.5	156
25	Selfâ€Assembly of Thioureaâ€Crosslinked Graphene Oxide Framework Membranes toward Separation of Small Molecules. Advanced Materials, 2018, 30, e1705775.	11.1	154
26	Surface coordination layer passivates oxidation of copper. Nature, 2020, 586, 390-394.	13.7	154
27	Altering Hydrogenation Pathways in Photocatalytic Nitrogen Fixation by Tuning Local Electronic Structure of Oxygen Vacancy with Dopant. Angewandte Chemie - International Edition, 2021, 60, 16085-16092.	7.2	152
28	Pd-Modified ZnOâ€"Au Enabling Alkoxy Intermediates Formation and Dehydrogenation for Photocatalytic Conversion of Methane to Ethylene. Journal of the American Chemical Society, 2021, 143, 269-278.	6.6	151
29	Direct observation of the energetics at a semiconductor/liquid junction by operando X-ray photoelectron spectroscopy. Energy and Environmental Science, 2015, 8, 2409-2416.	15.6	149
30	Phase Transformation and Lithiation Effect on Electronic Structure of Li_{<i>x</i>}FePO₄: An In-Depth Study by Soft X-ray and Simulations. Journal of the American Chemical Society, 2012, 134, 13708-13715.	6.6	136
31	Hexagonal Boron Nitride Cover on Pt(111): A New Route to Tune Moleculeâ€"Metal Interaction and Metal-Catalyzed Reactions. Nano Letters, 2015, 15, 3616-3623.	4.5	131
32	Direct Work Function Measurement by Gas Phase Photoelectron Spectroscopy and Its Application on PbS Nanoparticles. Nano Letters, 2013, 13, 6176-6182.	4.5	128
33	In situ ambient pressure XPS observation of surface chemistry and electronic structure of Î±-Fe2O3 and Î³-Fe2O3 nanoparticles. Applied Surface Science, 2018, 455, 1019-1028.	3.1	126
34	Strong correlations and orbital texture in single-layer 1T-TaSe2. Nature Physics, 2020, 16, 218-224.	6.5	126
35	Recent Progress on Synchrotronâ€Based Inâ€Situ Soft Xâ€ray Spectroscopy for Energy Materials. Advanced Materials, 2014, 26, 7710-7729.	11.1	123
36	CO oxidation on PtSn nanoparticle catalysts occurs at the interface of Pt and Sn oxide domains formed under reaction conditions. Journal of Catalysis, 2014, 312, 17-25.	3.1	122

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37	In Situ Oxidation Study of Pt(110) and Its Interaction with CO. Journal of the American Chemical Society, 2011, 133, 20319-20325.	6.6	120
38	The Effects of Native Oxide Surface Layer on the Electrochemical Performance of Si Nanoparticle-Based Electrodes. Journal of the Electrochemical Society, 2011, 158, A1260.	1.3	116
39	Structural and electronic properties of SnO2. Journal of Alloys and Compounds, 2013, 579, 50-56.	2.8	114
40	Elucidating the alkaline oxygen evolution reaction mechanism on platinum. Journal of Materials Chemistry A, 2017, 5, 11634-11643.	5.2	109
41	<i>InÂSitu</i>X-Ray Photoelectron Spectroscopy of Model Catalysts: At the Edge of the Gap. Physical Review Letters, 2013, 110, 117601.	2.9	107
42	CO2 Hydrogenation Studies on Co and CoPt Bimetallic Nanoparticles Under Reaction Conditions Using TEM, XPS and NEXAFS. Topics in Catalysis, 2011, 54, 778-785.	1.3	103
43	Learning from the past: Rare Îµ-Fe2O3 in the ancient black-glazed Jian (Tenmoku) wares. Scientific Reports, 2014, 4, 4941.	1.6	100
44	Aqueous solution/metal interfaces investigated in operando by photoelectron spectroscopy. Faraday Discussions, 2015, 180, 35-53.	1.6	99
45	Photoemission study of Csâ€“NF3 activated GaAs(100) negative electron affinity photocathodes. Applied Physics Letters, 2008, 92, .	1.5	98
46	Formation of Nanometer-Sized Surface Platinum Oxide Clusters on a Stepped Pt(557) Single Crystal Surface Induced by Oxygen: A High-Pressure STM and Ambient-Pressure XPS Study. Nano Letters, 2012, 12, 1491-1497.	4.5	95
47	In situ investigation of electrochemical devices using ambient pressure photoelectron spectroscopy. Journal of Electron Spectroscopy and Related Phenomena, 2013, 190, 84-92.	0.8	95
48	Enhanced Nickel-Catalyzed Methanation Confined under Hexagonal Boron Nitride Shells. ACS Catalysis, 2016, 6, 6814-6822.	5.5	95
49	Characterization of photocatalytic TiO2 powder under varied environments using near ambient pressure X-ray photoelectron spectroscopy. Scientific Reports, 2017, 7, 43298.	1.6	94
50	Surface termination and roughness of Ge(100) cleaned by HF and HCl solutions. Applied Physics Letters, 2006, 88, 021903.	1.5	92
51	Mechanistic Studies of Water Electrolysis and Hydrogen Electro-Oxidation on High Temperature Ceria-Based Solid Oxide Electrochemical Cells. Journal of the American Chemical Society, 2013, 135, 11572-11579.	6.6	90
52	In Situ Ambient Pressure X-ray Photoelectron Spectroscopy of Cobalt Perovskite Surfaces under Cathodic Polarization at High Temperatures. Journal of Physical Chemistry C, 2013, 117, 16087-16094.	1.5	89
53	High-performance photocatalytic nonoxidative conversion of methane to ethane and hydrogen by heteroatoms-engineered TiO2. Nature Communications, 2022, 13, 2806.	5.8	89
54	Prospect for high brightness IIIâ€“nitride electron emitter. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2000, 18, 3042.	1.6	82

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55	CO₂activation and carbonate intermediates: an operando AP-XPS study of CO₂electrolysis reactions on solid oxide electrochemical cells. Physical Chemistry Chemical Physics, 2014, 16, 11633-11639.	1.3	82
56	In Situ Characterization of Ceria Oxidation States in High-Temperature Electrochemical Cells with Ambient Pressure XPS. Journal of Physical Chemistry C, 2010, 114, 19853-19861.	1.5	81
57	X-ray spectroscopy of energy materials under in situ/operando conditions. Journal of Electron Spectroscopy and Related Phenomena, 2015, 200, 264-273.	0.8	81
58	The Mechanism of SEI Formation on a Single Crystal Si(100) Electrode. Journal of the Electrochemical Society, 2015, 162, A603-A607.	1.3	80
59	Intrinsic Ligand Effect Governing the Catalytic Activity of Pd Oxide Thin Films. ACS Catalysis, 2014, 4, 3330-3334.	5.5	79
60	Tuning phase transitions in FeSe thin flakes by field-effect transistor with solid ion conductor as the gate dielectric. Physical Review B, 2017, 95, .	1.1	77
61	Vaporâ€"liquidâ€"solid growth of large-area multilayer hexagonal boron nitride on dielectric substrates. Nature Communications, 2020, 11, 849.	5.8	75
62	Restructuring of hex-Pt(100) under CO Gas Environments: Formation of 2-D Nanoclusters. Nano Letters, 2009, 9, 2167-2171.	4.5	73
63	Observing the Electrochemical Oxidation of Co Metal at the Solid/Liquid Interface Using Ambient Pressure X-ray Photoelectron Spectroscopy. Journal of Physical Chemistry B, 2018, 122, 666-671.	1.2	73
64	Electrochemical Cutting in Weak Aqueous Electrolytes: The Strategy for Efficient and Controllable Preparation of Graphene Quantum Dots. Langmuir, 2018, 34, 250-258.	1.6	71
65	A Reconstructed Cu₂P₂O₇ Catalyst for Selective CO₂ Electroreduction to Multicarbon Products. Angewandte Chemie - International Edition, 2022, 61, e202114238.	7.2	71
66	Oxygen species in Cs/O activated gallium nitride (GaN) negative electron affinity photocathodes. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2003, 21, 1863.	1.6	70
67	Nature of Active Sites on Cuâ€"CeO₂ Catalysts Activated by High-Temperature Thermal Aging. ACS Catalysis, 2020, 10, 12385-12392.	5.5	69
68	Pt-Mediated Reversible Reduction and Expansion of CeO₂ in Pt Nanoparticle/Mesoporous CeO₂ Catalyst: In Situ X-ray Spectroscopy and Diffraction Studies under Redox (H₂ and O₂) Atmospheres. Journal of Physical Chemistry C, 2013, 117, 26608-26616.	1.5	67
69	Rh_{1â^'x}Pd_xnanoparticle composition dependence in CO oxidation by oxygen: catalytic activity enhancement in bimetallic systems. Physical Chemistry Chemical Physics, 2011, 13, 2556-2562.	1.3	66
70	Surface Composition and Catalytic Evolution of Au x Pd1â^'x (xÂ=Â0.25, 0.50 and 0.75) Nanoparticles Under CO/O2 Reaction in Torr Pressure Regime and at 200ÂÂ°C. Catalysis Letters, 2011, 141, 633-640.	1.4	63
71	Multielement Activity Mapping and Potential Mapping in Solid Oxide Electrochemical Cells through the use of <i>operando</i> XPS. ACS Catalysis, 2012, 2, 2297-2304.	5.5	63
72	A Rechargeable Li-Air Fuel Cell Battery Based on Garnet Solid Electrolytes. Scientific Reports, 2017, 7, 41217.	1.6	60

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73	Influence of Hydrocarbon and CO₂ on the Reversibility of Liâ€"O₂ Chemistry Using <i>In Situ</i> Ambient Pressure X-ray Photoelectron Spectroscopy. Journal of Physical Chemistry C, 2013, 117, 25948-25954.	1.5	59
74	Role of joule heating effect and bulk-surface phases in voltage-driven metal-insulator transition in VO2 crystal. Applied Physics Letters, 2013, 103, .	1.5	59
75	Origin of the Monochromatic Photoemission Peak in Diamondoid Monolayers. Nano Letters, 2009, 9, 57-61.	4.5	58
76	Role of oxygen in semiconductor negative electron affinity photocathodes. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2002, 20, 2721.	1.6	57
77	Magnetic ordering in tetragonal FeS: Evidence for strong itinerant spin fluctuations. Physical Review B, 2011, 83, .	1.1	57
78	Charge State of Gold Nanoparticles Supported on Titania under Oxygen Pressure. Angewandte Chemie - International Edition, 2011, 50, 2266-2269.	7.2	57
79	In Situ Characterization of Catalysis and Electrocatalysis Using APXPS. ACS Catalysis, 2021, 11, 1464-1484.	5.5	57
80	Electron scattering study within the depletion region of the GaN(0001) and the GaAs(100) surface. Applied Physics Letters, 2004, 85, 1541-1543.	1.5	55
81	Observation of Oxygen Vacancy Filling under Water Vapor in Ceramic Proton Conductors in Situ with Ambient Pressure XPS. Chemistry of Materials, 2013, 25, 4690-4696.	3.2	53
82	Direct Mapping of Band Positions in Doped and Undoped Hematite during Photoelectrochemical Water Splitting. Journal of Physical Chemistry Letters, 2017, 8, 5579-5586.	2.1	53
83	Optimized cleaning method for producing device quality InP(100) surfaces. Journal of Applied Physics, 2005, 97, 124902.	1.1	51
84	Rapid synthesis of hierarchical nanostructured Polyaniline hydrogel for high power density energy storage application and three-dimensional multilayers printing. Journal of Materials Science, 2016, 51, 4274-4282.	1.7	51
85	Improved Initial Performance of Si Nanoparticles by Surface Oxide Reduction for Lithium-Ion Battery Application. Electrochemical and Solid-State Letters, 2011, 14, A61-A63.	2.2	50
86	Probing the Surface of Platinum during the Hydrogen Evolution Reaction in Alkaline Electrolyte. Journal of Physical Chemistry B, 2018, 122, 864-870.	1.2	50
87	An APXPS endstation for gasâ€"solid and liquidâ€"solid interface studies at SSRF. Nuclear Science and Techniques/Hewuli, 2019, 30, 1.	1.3	50
88	<i>In Situ</i> Ambient Pressure Studies of the Chemistry of NO₂ and Water on Rutile TiO₂(110). Langmuir, 2010, 26, 2445-2451.	1.6	49
89	Measuring individual overpotentials in an operating solid-oxide electrochemical cell. Physical Chemistry Chemical Physics, 2010, 12, 12138.	1.3	48
90	Reversible structural transformation of FeOx nanostructures on Pt under cycling redox conditions and its effect on oxidation catalysis. Physical Chemistry Chemical Physics, 2013, 15, 14708.	1.3	48

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91	Preparation of clean GaAs(100) studied by synchrotron radiation photoemission. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2003, 21, 212-218.	0.9	47
92	In situ XPS study of the adsorption and reactions of NO and O2 on gold nanoparticles deposited on TiO2 and SiO2. Journal of Catalysis, 2011, 283, 119-123.	3.1	47
93	Reversible formation of a PdCx phase in Pd nanoparticles upon CO and O2 exposure. Physical Chemistry Chemical Physics, 2012, 14, 4796.	1.3	47
94	Nature of Interface Confinement Effect in Oxide/Metal Catalysts. Journal of Physical Chemistry C, 2015, 119, 27556-27561.	1.5	45
95	Kinetically Enhanced Bubble-Exfoliation of Graphite toward High-Yield Preparation of High-Quality Graphene. Chemistry of Materials, 2017, 29, 8578-8582.	3.2	45
96	Interface Science Using Ambient Pressure Hard X-ray Photoelectron Spectroscopy. Surfaces, 2019, 2, 78-99.	1.0	45
97	Simple method for cleaning gallium nitride (0001). Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2002, 20, 1784-1786.	0.9	44
98	Electronic structure of monolayer 1Tâ€²-MoTe2 grown by molecular beam epitaxy. APL Materials, 2018, 6, .	2.2	44
99	Reactivity of Au nanoparticles supported over SiO2 and TiO2 studied by ambient pressure photoelectron spectroscopy. Catalysis Today, 2009, 143, 158-166.	2.2	43
100	Promoter Effect of Early Stage Grown Surface Oxides: A Near-Ambient-Pressure XPS Study of CO Oxidation on PtSn Bimetallics. Journal of Physical Chemistry Letters, 2012, 3, 3707-3714.	2.1	43
101	High-Pressure XPS of Crotyl Alcohol Selective Oxidation over Metallic and Oxidized Pd(111). ACS Catalysis, 2012, 2, 2235-2241.	5.5	43
102	In situ study of oxidation states and structure of 4nm CoPt bimetallic nanoparticles during CO oxidation using X-ray spectroscopies in comparison with reaction turnover frequency. Catalysis Today, 2012, 182, 54-59.	2.2	42
103	Deactivation of Ru Catalysts under Catalytic CO Oxidation by Formation of Bulk Ru Oxide Probed with Ambient Pressure XPS. Journal of Physical Chemistry C, 2013, 117, 13108-13113.	1.5	42
104	Organometallic Ruthenium Nanoparticles as Model Catalysts for CO Hydrogenation: A Nuclear Magnetic Resonance and Ambient-Pressure X-ray Photoelectron Spectroscopy Study. ACS Catalysis, 2014, 4, 3160-3168.	5.5	42
105	Negative electron affinity group III-nitride photocathode demonstrated as a high performance electron source. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2004, 22, 3565.	1.6	41
106	Influence of Taoism on the invention of the purple pigment used on the Qin terracotta warriors. Journal of Archaeological Science, 2007, 34, 1878-1883.	1.2	41
107	PbS Nanoparticles Capped with Tetrathiafulvalenetetracarboxylate: Utilizing Energy Level Alignment for Efficient Carrier Transport. ACS Nano, 2014, 8, 2532-2540.	7.3	41
108	Note: Fixture for characterizing electrochemical devices in-operando in traditional vacuum systems. Review of Scientific Instruments, 2010, 81, 086104.	0.6	39

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109	Nonpercolative metal-insulator transition in VO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>single crystals. Physical Review B, 2011, 84, .	1.1	39
110	In Situ Observation of Water Dissociation with Lattice Incorporation at FeO Particle Edges Using Scanning Tunneling Microscopy and X-ray Photoelectron Spectroscopy. Langmuir, 2011, 27, 2146-2149.	1.6	38
111	Preparation of clean InP(100) surfaces studied by synchrotron radiation photoemission. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2003, 21, 219-225.	0.9	37
112	The work function of submonolayer cesium-covered gold: A photoelectron spectroscopy study. Journal of Chemical Physics, 2008, 129, 024709.	1.2	37
113	Oxidation and reduction of size-selected subnanometer Pd clusters on Al2O3 surface. Journal of Chemical Physics, 2013, 138, 214304.	1.2	37
114	Optimization and characterization of IIIâ€"V surface cleaning. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2003, 21, 1953.	1.6	36
115	Exploring surface science and restructuring in reactive atmospheres of colloidally prepared bimetallic CuNi and CuCo nanoparticles on SiO2in situ using ambient pressure X-ray photoelectron spectroscopy. Faraday Discussions, 2013, 162, 31.	1.6	36
116	CO₂ Activation on Ni(111) and Ni(100) Surfaces in the Presence of H₂O: An Ambient-Pressure X-ray Photoelectron Spectroscopy Study. Journal of Physical Chemistry C, 2019, 123, 12176-12182.	1.5	36
117	Anode coverage for enhanced electrochemical oxidation: a green and efficient strategy towards water-dispersible graphene. Green Chemistry, 2018, 20, 1306-1315.	4.6	35
118	In-situ study of the catalytic oxidation of CO on a Pt(110) surface using ambient pressure X-ray photoelectron spectroscopy. Surface Science, 2009, 603, L35-L38.	0.8	33
119	A Step toward the Wet Surface Chemistry of Glycine and Alanine on Cu{110}: Destabilization and Decomposition in the Presence of Near-Ambient Water Vapor. Journal of the American Chemical Society, 2011, 133, 6659-6667.	6.6	33
120	Ultralow Pt Catalyst for Formaldehyde Removal: The Determinant Role of Support. IScience, 2018, 9, 487-501.	1.9	33
121	Oxygen Evolution Reaction over the Au/YSZ Interface at High Temperature. Angewandte Chemie - International Edition, 2019, 58, 4617-4621.	7.2	33
122	Fine cubic Cu2O nanocrystals as highly selective catalyst for propylene epoxidation with molecular oxygen. Nature Communications, 2021, 12, 5921.	5.8	33
123	Water Growth on GeO₂/Ge(100) Stack and Its Effect on the Electronic Properties of GeO₂. Journal of Physical Chemistry C, 2013, 117, 165-171.	1.5	32
124	Reactivity Differences of Nanocrystals and Continuous Films of Î±-Fe₂O₃ on Au(111) Studied with In Situ X-ray Photoelectron Spectroscopy. Journal of Physical Chemistry C, 2010, 114, 22619-22623.	1.5	31
125	Effect of O₂, CO, and NO on Surface Segregation in a Rh_{0.5}Pd_{0.5} Bulk Crystal and Comparison to Rh_{0.5}Pd_{0.5} Nanoparticles. Langmuir, 2010, 26, 16362-16367.	1.6	31
126	Surface Composition Changes of Redox Stabilized Bimetallic CoCu Nanoparticles Supported on Silica under H₂ and O₂ Atmospheres and During Reaction between CO₂ and H₂: In Situ X-ray Spectroscopic Characterization. Journal of Physical Chemistry C, 2013, 117, 21803-21809.	1.5	31

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127	Exploring the Environmental Photochemistry on the TiO₂(110) Surface in Situ by Near Ambient Pressure X-ray Photoelectron Spectroscopy. Journal of Physical Chemistry C, 2015, 119, 7076-7085.	1.5	31
128	The Birth of Nickel Phosphide Catalysts: Monitoring Phosphorus Insertion into Nickel. ChemCatChem, 2017, 9, 2318-2323.	1.8	31
129	Interfacial Enhancement by Î³â€Al₂O₃ of Electrochemical Oxidative Dehydrogenation of Ethane to Ethylene in Solid Oxide Electrolysis Cells. Angewandte Chemie - International Edition, 2019, 58, 16043-16046.	7.2	31
130	Tuning the activities of cuprous oxide nanostructures via the oxide-metal interaction. Nature Communications, 2020, 11, 2312.	5.8	31
131	Exploiting Twoâ€Dimensional Bi₂O₂Se for Trace Oxygen Detection. Angewandte Chemie - International Edition, 2020, 59, 17938-17943.	7.2	31
132	Roles of oxygen and water vapor in the oxidation of halogen terminated Ge(111) surfaces. Applied Physics Letters, 2006, 89, 231925.	1.5	30
133	Formation of cesium peroxide and cesium superoxide on InP photocathode activated by cesium and oxygen. Journal of Applied Physics, 2007, 102, 074908.	1.1	30
134	Photoemission study of the electronic structure of valence band convergent SnSe. Physical Review B, 2017, 96, .	1.1	30
135	48 GHz High-Performance Ge-on-SOI Photodetector With Zero-Bias 40 Gbps Grown by Selective Epitaxial Growth. Journal of Lightwave Technology, 2017, 35, 5306-5310.	2.7	30
136	Robust<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>CsBr</mml:mi><mml:mo>/</mml:mo><mml:mi>Cu</mml:mi></mml:math>photocathodes for the linac coherent light source. Physical Review Special Topics: Accelerators and Beams, 2008, 11, .	1.8	29
137	In Situ Characterizations of Nanostructured SnO_{<i>x</i>}/Pt(111) Surfaces Using Ambient-Pressure XPS (APXPS) and High-Pressure Scanning Tunneling Microscopy (HPSTM). Journal of Physical Chemistry C, 2014, 118, 1935-1943.	1.5	29
138	Light-Induced Surface Reactions at the Bismuth Vanadate/Potassium Phosphate Interface. Journal of Physical Chemistry B, 2018, 122, 801-809.	1.2	29
139	Stabilizing the Meniscus for Operando Characterization of Platinum During the Electrolyte-Consuming Alkaline Oxygen Evolution Reaction. Topics in Catalysis, 2018, 61, 2152-2160.	1.3	28
140	Observation of Substrate Orientation-Dependent Oxygen Defect Filling in Thin WO_{3âˆ'Î´}/TiO₂ Pulsed Laser-Deposited Films with in Situ XPS at High Oxygen Pressure and Temperature. Chemistry of Materials, 2012, 24, 3473-3480.	3.2	27
141	A near ambient pressure XPS study of subnanometer silver clusters on Al₂O₃and TiO₂ultrathin film supports. Physical Chemistry Chemical Physics, 2014, 16, 26645-26652.	1.3	27
142	Surface segregation and oxidation of Pt3Ni(1 1 1) alloys under oxygen environment. Catalysis Today, 2016, 260, 3-7.	2.2	26
143	In situ observation of H2 dissociation on the ZnO (0001) surface under high pressure of hydrogen using ambient-pressure XPS. International Journal of Hydrogen Energy, 2018, 43, 8655-8661.	3.8	26
144	Heterogeneous Synergetic Effect of Metalâ€"Oxide Interfaces for Efficient Hydrogen Evolution in Alkaline Solutions. ACS Applied Materials & Interfaces, 2021, 13, 13838-13847.	4.0	26

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145	Structure and Chemical State of the Pt(557) Surface during Hydrogen Oxidation Reaction Studied by in Situ Scanning Tunneling Microscopy and X-ray Photoelectron Spectroscopy. Journal of the American Chemical Society, 2013, 135, 12560-12563.	6.6	25
146	Hard X-rays inâ€“soft X-rays out: An operando piggyback view deep into a charging lithium ion battery with X-ray Raman spectroscopy. Journal of Electron Spectroscopy and Related Phenomena, 2015, 200, 257-263.	0.8	25
147	Cooperative Catalysis of Nickel and Nickel Oxide for Efficient Reduction of CO₂ to CH₄. ChemCatChem, 2019, 11, 1295-1302.	1.8	25
148	Electrochemically controlled energy release from a norbornadiene-based solar thermal fuel: increasing the reversibility to 99.8% using HOPG as the electrode material. Journal of Materials Chemistry A, 2020, 8, 15658-15664.	5.2	25
149	An Electrochemical, Microtopographical and Ambient Pressure X-Ray Photoelectron Spectroscopic Investigation of Si/TiO₂/Ni/Electrolyte Interfaces. Journal of the Electrochemical Society, 2016, 163, H139-H146.	1.3	24
150	Three-dimensional ultrastructural imaging reveals the nanoscale architecture of mammalian cells. IUCrJ, 2018, 5, 141-149.	1.0	24
151	Realization of wafer-scale nanogratings with sub-50 nm period through vacancy epitaxy. Nature Communications, 2019, 10, 2437.	5.8	24
152	Steering the reaction pathway of syngas-to-light olefins with coordination unsaturated sites of ZnGaOx spinel. Nature Communications, 2022, 13, 2742.	5.8	24
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